

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) A field-emission display with improved electron emission, comprising:

an anode electrode layer, having at least one anode formed thereon;

a cathode electrode layer, having at least one cathode formed thereon, wherein the cathode is aligned with the anode; and

a gate conductive layer disposed between the anode electrode layer and the cathode electrode layer, the gate conductive layer having at least one aperture aligned with the anode and the cathode;

wherein the cathode includes a first cathode conductive layer in shape of a semi-spherical lump, thus a protruding center of the first cathode conductive layer gradually descends towards a periphery thereof, and a second cathode conductive layer formed on top of central region of the first cathode conductive layer.

thereby, the cathode is so configured that beeline distances between all surface[[s]] points of the cathode and the gate conductive layer are identical.

2. (Currently Amended) The display of Claim 1, wherein the anode electrode layer comprises a substrate, and the anode comprises a first anode conductive layer and a second anode conductive layer which wraps the first anode conductive layer therein formed on the substrate sequentially.

3. (Original) The display of Claim 2, wherein the substrate is fabricated from glass material.

4. (Currently Amended) The display of Claim 2, wherein the first anode conductive layer is fabricated from indium tin oxide (ITO) material.

5. (Currently Amended) The display of Claim 4, wherein the second anode conductive layer is fabricated from phosphor powder.

6. (Original) The display of Claim 1, further comprising a dielectric layer formed and patterned on the cathode electrode layer to encompass the cathode therein.

7. (Original) The display of Claim 6, wherein the gate conductive layer is formed on the dielectric layer.

8. (Cancelled)

9. (Currently Amended) The display of Claim [[8]]1, wherein the first cathode conductive layer is fabricated from silver paste.

10. (Currently Amended) The display of Claim [[8]]1, wherein the second cathode conductive layer is fabricated from carbon nanotube.

11. (Currently Amended) A cathode electrode of a field-emission display, comprising:

a substrate; and

a cathode electrode formed on the substrate, wherein the cathode electrode[[has]] includes a first conductive layer having a protruding center gradually descending towards a periphery thereof, and a second conductive layer formed on top of central region of the first conductive layer.

12. (Cancelled)

13. (Currently Amended) The electrode of Claim [[12]]11, wherein the first conductive layer includes a patterned silver paste.

14. (Currently Amended) The electrode of Claim [[12]]11, wherein the second conductive layer includes a carbon nanotube.

15. (Currently Amended) A method of fabricating a field emission display, comprising:

forming at least one cathode electrode on a cathode substrate, wherein the cathode electrode ~~[[has]]includes a first conductive layer having~~ a protruding center gradually descending towards a periphery ~~of the cathode electrode thereof, and a second conductive layer formed on top of central region of the first conductive layer;~~

forming a dielectric layer on the cathode substrate, wherein the dielectric layer is patterned to encompass the cathode electrode therein;

forming a gate conductive layer on the dielectric layer, wherein the gate conductive layer has an aperture aligned with the cathode electrode; and

forming at least one anode electrode on an anode substrate over the gate conductive layer, wherein the anode electrode is aligned with the cathode electrode.

16. (Currently Amended) The method of Claim 15, wherein the step of forming the cathode electrode further comprising:

~~applying screen printing~~ a silver paste on the substrate;

providing a gray-scale mask over the silver paste;

exposing ~~silver paste~~ the silver paste with a light through the gray-scale mask, wherein the gray-scale mask has a gradually increasing transmission rate of the light from a center to a periphery thereof; and

removing the portion of the silver paste that has been exposed by the light to form the first conductive layer.

17. (Currently Amended) The method of Claim 15, wherein the step of forming the anode electrode includes:

forming an indium tin oxide layer on the anode substrate; and

forming a phosphor layer on the indium tin oxide layer to wrap the indium tin oxide layer therein.

18. (New) The method of Claim 16, wherein the step of forming the cathode electrode further comprising:

spraying a carbon nanotube on the first conductive layer to form the second conductive layer.

19. (New) The method of Claim 16, wherein the transmission rate at the center of the gray-scale mask is about 20% and the transmission rate at the periphery of the gray-scale mask is about 100%.